

New patent claims

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1. A tamping machine for soil compaction, with a working mass which is driven in a tamping manner and which can be driven linearly back and forth, via a crank mechanism (3, 4, 5, 7, 16) and a spring assembly (11), by a motor belonging to an upper mass, wherein the crank mechanism has at least one structural element (5, 7, 16) which is moveable linearly back and forth and which can be produced from a material, the density of which is lower than that of steel, and wherein the structural element which is moveable linearly back and forth is a structural element from the group comprising a connecting rod (5), guide piston (7), piston guide (16).

2. The tamping machine as claimed in claim 1, wherein the material is an aluminum alloy.

3. The tamping machine as claimed in claim 1 or 2, wherein the material is a plastic.

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4. The tamping machine as claimed in claim 1, wherein the piston guide (16) can be produced from plastic in one piece together with at least one damping bush (18, 19).

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